

2006
Virginia Department of Transportation
Daily Traffic Volume Estimates
Including Vehicle Classification Estimates
where available

Special Locality Report
189
Town of Chilhowie

Information in this report is included in Report
86
(Smyth County)

Prepared By
Virginia Department of Transportation
Traffic Engineering Division

In Cooperation With
U.S. Department of Transportation
Federal Highway Administration

Virginia Department of Transportation
Traffic Engineering Division
Traffic Monitoring Section

The Virginia Department of Transportation (VDOT) conducts a program where traffic count data are gathered from sensors in or along streets and highways and other sources. From these data, estimates of the average number of vehicles that traveled each segment of road are calculated. VDOT periodically publishes booklets listing these estimates.

One of these booklets, titled "Average Daily Traffic Volumes with Vehicle Classification Data, on Interstate, Arterial and Primary Routes" includes a list of each Interstate and Primary highway segment with the estimated Annual Average Daily Traffic (AADT) for that segment. AADT is the total annual traffic estimate divided by the number of days in the year. This booklet also includes information such as estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks; estimated Annual Average Weekday Traffic (AAWDT), which is the number of vehicles estimated to have traveled the segment of highway during a 24 hour weekday averaged over the year; as well as Peak Hour and Peak Direction factors used by planners to formulate design criteria.

In addition to the Primary and Interstate publication, one hundred books are published periodically, one for each of 100 areas across the state defined by VDOT for record-keeping purposes. These books include traffic volume estimates for roads within the county, cities, and towns within the area. These books are titled "Daily Traffic Volumes Including Vehicle Classification Estimates, where available; Jurisdiction Report numbers 00 through 99".

Also available are a number of reports summarizing the average Vehicle Miles Traveled (VMT) in selected jurisdictions and other categories of highways. There are many different ways to present traffic volume summary information. Because the user determines the value of each presentation, the reports have been redesigned based on user requests and feedback. The people of the VDOT Traffic Engineering Division Traffic Monitoring Section who produce these books welcome requests for other helpful ways of presenting the summary information.

A compact disc (CD) is available that includes files in the Adobe® Portable Document Format (PDF) that can be displayed, searched, and printed using common desktop computer equipment. The CD includes the publications described above as well as a number of other reports, including specialized VMT summaries and smaller AADT reports for each city and town separately.

Publication Notes

Parallel Roads

For road inventory and management purposes, some roadways are counted separately by direction and have separately published traffic estimates for each direction of travel. Examples of such roadways are the interstate system and routes with separated facilities and (usually) one-way traffic facilities in urban areas. In these publications, they are referred to as parallel roads. As a convenience for the users of the publication, the listing for segments of roads with parallel segments are published with both the traffic estimates for their own direction of travel (e.g. I-95 Northbound) as well as the estimate of the total of all traffic on the same route including parallel roadways (all directions of I-95). The publication will have a “Combined Traffic Estimates for Parallel Roadways on this Route” or “Combined Traffic” identifiers for the combined direction of travel estimates.

Roadways such as I-395 with a North segment, a South segment and a separate Reversible lane segment will have the estimate for more than two parallel roadways included in the entire combined traffic estimate.

Some routes have very complicated paths through cities and towns. These parallel paths may be too complex to allow a relationship between nearby sections of the opposite direction on the same route. In this case, to indicate that the traffic estimates for such a road segment may not include all directions of traffic on that route, the line that would list the combined values will indicate “NA” for not available.

VDOT’s traffic monitoring program includes more than 100,000 segments of roads and highways ranging from several mile sections of Interstate highways to very short sections of city streets. Due to problems experienced obtaining some traffic count data, and the level of quality necessary to maintain confidence in the data, no estimate is currently available for some segments of roadway. These segments are included in the publications indicating “NA” for not available. It is the intention of the VDOT Traffic Engineering Division Traffic Monitoring group to obtain the data necessary and to report traffic volume estimates on all road segments included in these publications.

Many of the road segments in this program are local secondary roads. The amount and detail of data collected on these roads are not as great as the data collected on higher volume roads. The vehicle classification, average weekday traffic volumes, and the theoretical design hour traffic volumes are not calculated for these roads. The publications indicate “NA” for the information that is not available.

This publication is based on a traffic monitoring program initiated in 1997. Because the data collection techniques and statistical evaluation processes are different than those used in previous years, comparison with previous publications may be misleading.

Glossary of Terms:

Route: The Route Number assigned to this segment of roadway with the master inventory route number if this is an overlapping route, with official street or highway name if available.

Length: Length of the traffic segment in miles.

AADT: Annual Average Daily Traffic. The estimate of typical daily traffic on a road segment for all days of the week, Sunday through Saturday, over the period of one year.

QA: Quality of AADT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- H Historical Estimate
- M Manual Uncounted Estimate
- N AADT of Similar Neighboring Traffic Link
- O Provided By External Source
- R Raw Traffic Count, Unfactored

4Tire: Percentage of the traffic volume made up of motorcycles, passenger cars, vans and pickup trucks.

Bus: Percentage of the traffic volume made up of busses.

2Axle Truck: Percentage of the traffic volume made up of 2 axle single unit trucks (not including pickups and vans).

3+Axle Truck: Percentage of the traffic volume made up of single unit trucks with three or more axles.

1Trail Truck: Percentage of the traffic volume made up of units with a single trailer.

2Trail Truck: Percentage of the traffic volume made up of units with more than one trailer.

QC: Quality of Classification Data:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- C Short Term Classified Traffic Count Data
- F Factored Short Term Traffic Count Data
- H Historical Estimate
- M Mass Collective Average
- N Classification Estimates of Similar Neighboring Traffic Link

K Factor: The estimate of the portion of the traffic volume traveling during the peak hour or design hour.

QK: Quality of the K Factor estimate:

- A Factor based on 30th Highest Hour Observed During at least 250 days of Continuous Traffic Data
- B Factor based on other Hour Observed During Less than 250 days of Continuous Traffic Data
- F Factor based on Highest Hour Collected at in a 48 Hour Weekday Period
- M Factor based on Manual Estimate of design hour
- N Design Hour Factor (K Factor) of Similar Neighboring Traffic Link
- O Provided by External Source

Dir Factor: The estimate of the portion of the traffic volume traveling in the peak direction during the peak hour..

AAWDT: Average Annual Weekday Traffic. The estimate of typical traffic over the period of one year for the days between Monday through Thursday inclusive.






QW: Quality of AAWDT:

- A Average of Complete Continuous Count Data
- B Average of Selected Continuous Count Data
- F Factored Short Term Traffic Count Data
- G Factored Short Term Traffic Count Data with Growth Element
- M Manual Uncounted Estimate
- N AAWDT of Similar Neighboring Traffic Link
- O Provided by External Source





Year: Year for which the published values are appropriate. If the Quality of AADT (QA) is "R", the year is the year that the raw traffic count was collected, and if available,

Route Shield Legend









Route Systems

	Interstate Route	Traffic volume data for Interstate Routes and some other routes are reported separately by direction, as well as combined.
	US Route	
	Virginia State Route	
	Frontage Road (F precedes frontage route number)	
	Secondary Route	

Special Routes

	Bus - Business Route
	Bypas - Bypass Route
	Truck - Truck Route
	ALT - Alternate Route
	Wve - Wye Route connector
	P - Parallel Route; Southbound or Westbound direction lanes of a numbered route where they are on a different road facility than the other direction.
	The VDOT Maintenance Jurisdiction number is displayed below the Secondary Route Number if the Maintenance Jurisdiction is different than the jurisdiction in the title of the report.

Virginia Department of Transportation
Traffic Engineering Division
2006
Annual Average Daily Traffic Volume Estimates By Section of Route
Town of Chilhowie

Route	Jurisdiction	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW
							2Axle	3+Axle	1Trail	2Trail						
 Lee Highway	From: WCL Chilhowie															
	Town of Chilhowie (Maint: 86)	1.13	2500	N	98%	0%	1%	0%	1%	0%	N	0.098	N	0.510	2600	N
 Lee Highway	From: SR 107 Whitetop Rd															
	Town of Chilhowie (Maint: 86)	1.51	6100	G	98%	0%	1%	0%	1%	0%	C	0.098	F	0.604	6300	G
North 	From: ECL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.11	15000	G	75%	1%	1%	1%	21%	1%	F	0.074	F		15000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		30000	G	77%	1%	1%	1%	19%	1%	F	NA			31000	G
North 	From: SR 107															
	Town of Chilhowie (Maint: 86)	0.45	17000	G	75%	1%	1%	1%	21%	1%	F	0.071	F		18000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		32000	G	77%	1%	1%	1%	20%	1%	F	0.072	F	0.522	32000	G
South 	From: NCL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.37	15000	G	79%	1%	1%	1%	18%	1%	F	0.074	F		15000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		30000	G	77%	1%	1%	1%	19%	1%	F	NA			31000	G
South 	From: SR 107															
	Town of Chilhowie (Maint: 86)	0.15	14000	G	79%	1%	1%	1%	18%	1%	F	0.083	F		15000	G
	Combined Traffic Estimates for 2 Parallel Roadways on this Route:		32000	G	77%	1%	1%	1%	20%	1%	F	0.072	F	0.522	32000	G
 White Top Ave	From: NCL Chilhowie															
	Town of Chilhowie (Maint: 86)	0.32	10000	G	97%	0%	1%	1%	1%	0%	C	0.087	F	0.541	11000	G
 White Top Ave	From: 86-762 Shop Rd															
	Town of Chilhowie (Maint: 86)	0.79	5400	G	96%	0%	1%	1%	1%	0%	C	0.079	F	0.698	5600	G
	From: US 11 Lee Hwy															
	From: US 11 Lee Highway															
	To: NCL Chilhowie															

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year			
Town of Chilhowie																			
<div><div>608</div><div>86</div></div>		0.30	310	From:	SCL Chilhowie								NA		NA	01/31/2006			
				To:	86-762 White Top Ave														
<div><div>639</div><div>86</div></div>	Sulfur Springs Rd	0.18	1000	From:	US 11 Lee Highway								NA		NA	01/31/2006			
				To:	86-731 Old Stage Rd														
<div><div>639</div><div>86</div></div>	Sulfur Springs Rd	0.30	920	From:									NA		NA	01/31/2006			
				To:	86-640														
<div><div>639</div><div>86</div></div>	Sulfur Springs Rd	0.40	420	From:									NA		NA	01/31/2006			
				To:	SR 107														
<div><div>640</div><div>86</div></div>		0.34	460	From:	86-639 Sulfur Springs Rd								NA		NA	01/31/2006			
				To:	86-736														
<div><div>640</div><div>86</div></div>		0.16	150	From:									NA		NA	01/31/2006			
				To:	Dead End														
<div><div>731</div><div>86</div></div>	Old Stage Rd	0.25	560	From:	86-639 Sulfur Springs Rd								NA		NA	01/31/2006			
				To:	NCL Chilhowie														
<div><div>731</div><div>86</div></div>	Old Stage Rd	0.90	2300	From:									NA		NA	07/12/2001			
				To:	86-774 Lyons Gap Rd														
<div><div>731</div><div>86</div></div>	Old Stage Rd	0.28	230	From:									NA		NA	07/12/2001			
				To:	US 11 Lee Highway														
<div><div>736</div><div>86</div></div>		0.24	190	From:	86-640								NA		NA	07/12/2001			
				To:	86-737														
<div><div>736</div><div>86</div></div>		0.08	60	From:									NA		NA	07/12/2001			
				To:	Dead End														
<div><div>737</div><div>86</div></div>		0.08	10	From:	86-736								NA		NA	07/12/2001			
				To:	Dead End														
<div><div>762</div><div>86</div></div>		0.68	6500	From:	SCL Chilhowie								N	0.088	N	0.626	6800	N	2006
				To:	86-608														
<div><div>762</div><div>86</div></div>	White Top Ave	0.04	9200	From:	G 97% 1% 1% 1% 0%						F	0.083	F	0.582	9600	G	2006		
				To:	I-81														
<div><div>774</div><div>86</div></div>	Lyons Gap Rd	0.12	2100	From:	US 11 Lee Highway								F	0.083	F	0.676	2200	G	2006
				To:	86-731														
<div><div>774</div><div>86</div></div>	Lyons Gap Rd	0.36	1700	From:	86-731 Old Stage Rd								C	0.089	F	0.596	1700	G	2006
				To:	NCL Chilhowie														
<div><div>1001</div><div>86</div></div>	Church Ave	0.04	360	From:	86-1004 Main St								NA		NA		07/12/2001		
				To:	US 11 Lee Highway														
<div><div>1001</div><div>86</div></div>	Church Ave	0.05	400	From:									NA		NA		07/12/2001		
				To:	86-1002 Chilhowie St														
<div><div>1001</div><div>86</div></div>	Church Ave	0.14	430	From:	86-1002 Chilhowie								NA		NA		07/12/2001		
				To:	86-731 Old Stage Rd														
<div><div>1002</div><div>86</div></div>	Chilhowie St	0.04	230	From:	86-1023 Walton Ave								NA		NA		07/12/2001		
				To:	86-1005 Hull Ave														
<div><div>1002</div><div>86</div></div>	Chilhowie	0.08	210	From:									NA		NA		07/12/2001		
				To:	86-1001 Church Ave														

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Town of Chilhowie

Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1002 86 Chilhowie St	0.29	450	From:	86-1001 Church Ave							NA		NA	07/12/2001		
			To:	86-1007 Park Ave												
1002 86 Chilhowie St	0.05	360	From:	86-1008 Pine Ave							NA		NA	07/12/2001		
			To:	86-1003 Sanders Ave												
1002 86 Chilhowie St	0.06	320	From:	86-1003 Sanders Ave							NA		NA	07/12/2001		
			To:	86-1009 Bonham Ave												
1002 86 Chilhowie St	0.08	210	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-1009 Bonham Ave												
1003 86 Sanders Ave	0.05	1000	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-1002 Chilhowie St												
1003 86 Sanders Ave	0.10	560	From:	86-1010 Hood St							NA		NA	07/12/2001		
			To:	86-731 Old Stage Rd												
1003 86 Sanders Ave	0.09	490	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-731 Old Stage Rd												
1004 86 Main St	0.19	1600	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-1006												
1004 86 Main St	0.05	2400	From:	SR 107							NA		NA	07/12/2001		
			To:	SR 107												
1004 86 Main St	0.07	960	From:	86-1023 Walton Ave							NA		NA	07/12/2001		
			To:	86-1023 Walton Ave												
1004 86 Main St	0.06	540	From:	86-1005 First Ave							NA		NA	07/12/2001		
			To:	86-1001 Church Ave												
1004 86 Main St	0.06	320	From:	86-1004 Main St							NA		NA	07/12/2001		
			To:	86-1001 Church Ave												
1005 86 First Ave	0.04	260	From:	86-1004 Main St							NA		NA	07/12/2001		
			To:	US 11 E, Lee Hwy												
1005 86 Hull Ave	0.05	120	From:	US 11 W, Lee Hwy							NA		NA	07/12/2001		
			To:	86-1002 Chilhowie St												
1006 86	0.04	850	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-1004 Main St												
1007 86 Park Ave	0.05	50	From:	86-1002 Chilhowie St							NA		NA	07/12/2001		
			To:	Dead End												
1008 86 Pine Ave	0.15	530	From:	Dead End							NA		NA	07/12/2001		
			To:	US 11 Lee Highway												
1008 86 Pine Ave	0.05	170	From:	US 11 Lee Highway							NA		NA	07/12/2001		
			To:	86-1002 Chilhowie St												
1009 86 Bonham Ave	0.03	1400	From:	US 11; 86-9812							NA		NA	07/12/2001		
			To:	86-1002 Chilhowie St												
1009 86 Bonham Ave	0.10	650	From:	86-1010 Hood St							NA		NA	07/12/2001		
			To:	86-731 Old Stage Rd												
1009 86 Bonham Ave	0.10	630	From:	86-731 Old Stage Rd							NA		NA	07/12/2001		
			To:	86-1009 Bonham Ave												
1010 86 Hood St	0.08	50	From:	86-1009 Bonham Ave							NA		NA	07/12/2001		
			To:	86-1003 Sanders Ave												

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						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
1010 86 Hood St	0.03	70	From:	86-1003 Sanders Ave								NA		NA		01/31/2006
			To:	Dead End												
1011 86 Sunshine Ave	0.06	80	From:	86-731 Old Stage Rd								NA		NA		07/12/2001
			To:	86-1013 Sunshine Dr												
1012 86 E Sunshine Ave	0.06	100	From:	86-731 Old Stage Rd								NA		NA		07/12/2001
			To:	86-1013 Sunshine Dr												
1013 86 Sunshine Dr	0.06	90	From:	86-1011 Sunshine Ave								NA		NA		07/12/2001
			To:	86-1012 EAST Sunshine Ave												
1014 86 Beattie Ave	0.10	100	From:	SR 107								NA		NA		07/12/2001
			To:	86-731 Old Stage Rd												
1015 86 Greever Ave	0.05	830	From:	US 11 Lee Highway								NA		NA		07/12/2001
			To:	86-1028 Greenway St												
1015 86 Greever Ave	0.04	790	From:	86-1028 Greenway St								NA		NA		07/12/2001
			To:	86-1016 Sunset St												
1016 86 Sunset Dr	0.07	660	From:	86-1020 West Ave								NA		NA		07/12/2001
			To:	86-1022 Midnight Dr												
1016 86 Sunset St	0.03	680	From:	86-1022 Midnight Dr								NA		NA		07/12/2001
			To:	86-1015 Greever Ave												
1016 86 Sunset St	0.11	270	From:	86-1015 Greever Ave								NA		NA		07/12/2001
			To:	86-1018												
1016 86 Sunset St	0.07	500	From:	86-1018								NA		NA		07/12/2001
			To:	86-1017 Martin Ave												
1016 86 Sunset St	0.04	80	From:	86-1017 Martin Ave								NA		NA		07/12/2001
			To:	Dead End												
1017 86 Martin Ave	0.03	1100	From:	US 11 Lee Highway								NA		NA		07/12/2001
			To:	86-1028 Greenway St												
1017 86 Martin Ave	0.05	960	From:	86-1028 Greenway St								NA		NA		07/12/2001
			To:	86-1016 Sunset St												
1017 86 Martin Ave	0.12	540	From:	86-1016 Sunset St								NA		NA		07/12/2001
			To:	86-1019 Skyview Dr												
1018 86	0.06	160	From:	86-1016 Sunset St								NA		NA		07/12/2001
			To:	86-1021												
1019 86 Skyview Dr	0.06	250	From:	86-1020								NA		NA		07/12/2001
			To:	86-1025												
1019 86 Skyview Dr	0.22	380	From:	86-1025								NA		NA		07/12/2001
			To:	86-1017												
1020 86	0.11	320	From:	86-1016								NA		NA		01/31/2006
			To:	86-1019												
1021 86	0.16	70	From:	86-1022								NA		NA		01/31/2006
			To:	86-1018												
1022 86	0.06	160	From:	86-1016 Sunset St								NA		NA		01/31/2006
			To:	86-1021												

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Route	Length	AADT	QA	4Tire	Bus	-----Truck-----				QC	K Factor	QK	Dir Factor	AAWDT	QW	Year
						2Axle	3+Axle	1Trail	2Trail							
Town of Chilhowie																
<div>1023</div> <div>86</div>	Walton Ave	0.04	910	R	From:	86-1004 Main St					NA		NA		07/12/2001	
					To:	US 11 Lee Highway										
<div>1023</div> <div>86</div>	Walton Ave	0.05	200	R	From:	86-1002 Chilhowie St					NA		NA		07/12/2001	
					To:	86-731 Old Stage Rd										
<div>1023</div> <div>86</div>	Walton Ave	0.13	180	R	From:	Dead End					NA		NA		07/12/2001	
					To:	US 11 Lee Highway										
<div>1024</div> <div>86</div>		0.19	1900	R	From:	86-1019					NA		NA		07/12/2001	
					To:	86-1026										
<div>1025</div> <div>86</div>		0.05	280	R	From:	Dead End					NA		NA		01/31/2006	
					To:	86-1025										
<div>1026</div> <div>86</div>		0.21	230	R	From:	Dead End					NA		NA		01/31/2006	
					To:	Dead End										
<div>1026</div> <div>86</div>		0.07	100	R	From:	Dead End					NA		NA		01/31/2006	
					To:	86-1024										
<div>1027</div> <div>86</div>		0.17	440	R	From:	86-1015					NA		NA		07/12/2001	
					To:	86-1017										
<div>1028</div> <div>86</div>		0.19	80	R	From:	US 11 Lee Highway					NA		NA		01/31/2006	
					To:	86-731 Old Stage Rd										
<div>1033</div> <div>86</div>		0.17	470	R	From:	86-762 White Top Rd					NA		NA		01/31/2006	
					To:	86-762										
<div>1034</div> <div>86</div>		0.38	160	R	From:	86-762					NA		NA		07/12/2001	
					To:	86-1036										
<div>1035</div> <div>86</div>		0.04	690	R	From:	86-1035					NA		NA		07/12/2001	
					To:	Dead End										
<div>1036</div> <div>86</div>		0.25	690	R	From:	86-731 Old Stage Rd					NA		NA		07/12/2001	
					To:	Cul-de-Sac										
<div>1037</div> <div>86</div>		0.28	60	R	From:	86-1004					NA		NA		01/31/2006	
					To:	US 11 Lee Highway										
<div>1038</div> <div>86</div>		0.03	570	R	From:	Chilhowie High School					NA		NA		02/02/2006	
					To:	US 11; 86-1009										